

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
12 May 2005 (12.05.2005)

PCT

(10) International Publication Number  
**WO 2005/042306 A2**

(51) International Patent Classification<sup>7</sup>:

B60R

(21) International Application Number:

PCT/US2004/035017

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/513,644 23 October 2003 (23.10.2003) US

(71) Applicant (for all designated States except US): DELPHI TECHNOLOGIES, INC. [US/US]; P.O. Box 5052, Mail code 480-410-202, Troy, MI 48007-5052 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRANDL, Michael, C. [US/US]; 461 Jennifer Lane, Grayslake, IL 60030 (US). BARTHEL, Richard, C. [US/US]; 33030 N. River Road, Libertyville, IL 60048 (US). NOVELLE, Anthony, J. [US/US]; 120 Newton Avenue, Glen Ellyn, IL 60137 (US).

(74) Agent: WOOD, David, P.; Delphi Technologies, Inc., P.O. Box 5052, Legal Staff-M/C 480-410-202, Troy, MI 48007-5052 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

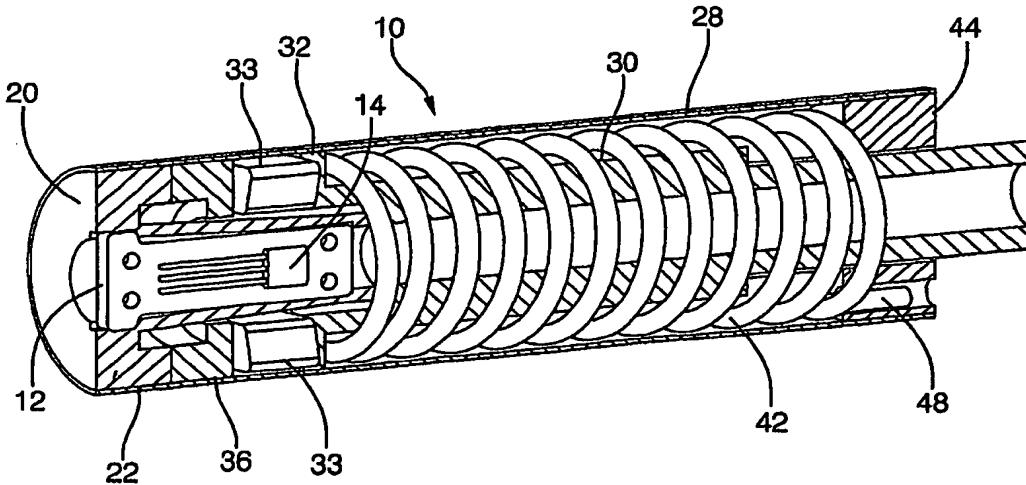
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: CONTROL CARTRIDGE AND CONTROL HANDLE INCLUDING SAME



WO 2005/042306 A2

(57) Abstract: A control cartridge has a circuit board that includes a Hall effect sensor, the position of which is fixed in a housing that has a cam. The control cartridge includes a shaft that carries a magnet and that rotates and translates with respect to the housing. The shaft has a cam follower that engages the cam and translates the shaft with respect to the housing when the shaft is rotated with respect to the housing in one direction but not in an opposite direction. The control cartridge is shown as part of a control handle for a motorcycle in which the relative angular position of the shaft with respect to the Hall effect sensor is used to control engine speed manually while the relative axial position of the shaft with respect to the Hall effect sensor is used to deactivate a cruise control.

U.S. Appl. No. 10/575504

## DO/US WORKSHEET

International Appl. No. US 04/035017Application filed by:  20 months  30 months

## INTERNATIONAL APPLICATION PAPERS IN THE APPLICATION FILE:

<input checked="" type="checkbox"/> International application (RECORD COPY)	<input type="checkbox"/> Request form PCT/RO/101
<input type="checkbox"/> Article 19 amendments	<input type="checkbox"/> PCT/IB/302
<input type="checkbox"/> PCT/IB/331	<input checked="" type="checkbox"/> PCT/ISA/210-Search Report <small>24 Jan 04</small>
<input type="checkbox"/> PCT/IPEA/409 IPER (PCT/IPEA/416 on front)	<input type="checkbox"/> Search Report references
<input type="checkbox"/> Annexes to 409	<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/> Priority document(s) No. _____	

**INTERNATIONAL APPLICATION ON DOUBLE SIDED PAPER (COPIES MADE)**

## RECEIPTS FROM THE APPLICANT: (other than checked above)

<input checked="" type="checkbox"/> Basic National Fee (paid or authorized to charge)	<input type="checkbox"/> Preliminary amendment(s) filed
Translation of international application as filed:	
<input checked="" type="checkbox"/> Description	
<input checked="" type="checkbox"/> Claims	
<input checked="" type="checkbox"/> Words in the drawing figure(s)	
<input type="checkbox"/> Article 19 amendments	
<input type="checkbox"/> Annexes to 409	
<input checked="" type="checkbox"/> Oath / Declaration <small>Ln Executed.</small>	
<input type="checkbox"/> DNA diskette	
<input checked="" type="checkbox"/> Information Disclosure Statement <small>07-25-04</small>	
<input type="checkbox"/> Assignment document	
<input type="checkbox"/> Power of attorney/Change of address	
<input type="checkbox"/> Substitute specification	
<input type="checkbox"/> Verified small status claim	
<input type="checkbox"/> Other _____	

Notes: Use IA from IB.

No date sheet filed.

## 35 U.S.C. 371 - Receipt of Request (PTO-1390)

11 April 2006

Date acceptable oath / declaration received

02 April 2007

Date complete 35 U.S.C 371 requirements met

102(e) Date

Date of completion of DO/EO 906 - Notification of Missing 102(e) Requirements

Date of completion of DO/EO 907 - Notification of Acceptance for 102(e) date

Date of completion of DO/EO 911 - Application accepted under 35 U.S.C. 1.11

Date of completion of DO/EO 905 - Notification of Missing Requirements

22 Mar 2007

Date of completion of DO/EO 916 - Notification of Defective Response

Date of completion of DO/EO 903 - Notification of Acceptance

02 May 2007

Date of completion of DO/EO 909 - Notification of Abandonment

WIPO Publication  
Publication No.  
WO05/042306A2Publication Date  
12 May 05Publication Language  
EnglishNot Published  
 U.S. only  
Designated  
 EP requestScreening done by: SA  
22851**BEST AVAILABLE COPY**